

CLAIMS

What is claimed is:

1. In a computing device, a method of adding to a directory

5 information tree comprising the steps of:

a) accessing a template name;

b) reading a template according to said accessed template name, said

template comprising structural information of said directory information tree;

c) receiving a first set of attributes from an application program, said

10 received first set of attributes not including a location within said directory

information tree;

d) constructing an entry comprising: i) said received first set of attributes;

and ii) a destination location within said directory information, said destination

location generated using said structural information; and

15 e) adding said constructed entry to said directory information tree at said

destination location.

2. A method as described in Claim 1 wherein said template further

comprises a second set of attributes, said second set comprising default values

20 for inclusion in said constructed entry.

3. A method as described in Claim 1 wherein said template further comprises a third set of attributes, said third set comprising attributes that are required to have assigned values.

5 4. A method as described in Claim 1 wherein said template further comprises information specifying a verification program for verifying one or more attributes of said first set of attributes.

10 5. A method as described in Claim 1 wherein said template further comprises:

- i) a second set of attributes, said second set comprising default values for inclusion in said constructed entry;
- ii) a third set of attributes, said third set comprising attributes that are required to have assigned values; and
- iii) information specifying a program for verifying one or more attributes of said first set of attributes.

15 6. A method as described in Claim 5 wherein said template is an XML file.

20 7. A method as described in Claim 1 further comprising the step of detecting the condition of said constructed element being unacceptable for addition to said directory information tree.

8. A method as described in Claim 1 wherein said template is an XML file.

5 9. A method as described in Claim 1 wherein said directory information tree is an LDAP directory.

10 10. In a computing device, a method of adding an entry to directory information tree comprising the steps of:

10 a) passing a template name to an application program interface, said named template comprising structural information of said directory information tree; and

15 b) passing information for said entry to said application program interface, said passed information not including a location for said entry within said directory information tree.

11. A method as described in Claim 10 wherein said template is an XML file.

20 12. A method as described in Claim 10 wherein said directory information tree is an LDAP directory.

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13. In a computing device, a method of searching a directory information tree comprising the steps of:

- accessing a template name;
- reading a template according to said accessed template name, said 5 template comprising:
 - structural information of said directory information tree; and
 - a first set of attributes;
- accessing a second set of attributes from an application program, said accessed second set not included in said first set;
- constructing a query object comprising:
 - said first set of attributes;
 - said second set of attributes;
- performing a query operation using said query object.

14. A method as described in Claim 13 wherein said template further comprises information specifying a program for verifying one or more attributes in said second set of attributes.

15. A method as described in Claim 13 wherein said template is an 20 XML file.

16. A method as described in Claim 13 wherein said directory information tree is an LDAP directory.

17. A computer readable medium having instructions stored therein for
implementing a program module that directs the addition of an entry to a
directory information tree, to function in a specified manner, said instructions for:
5 a) accessing a template name;
 b) reading a template according to said received template name,
said template comprising structural information of said directory information
tree;
 c) receiving a first set of attributes from an application program, said
received first set of attributes not including a location within said directory
information tree;
 d) constructing an entry comprising:
 i) said received first set of attributes; and
 ii) a destination location within said directory information, said
destination location generated using said structural information; and
 e) adding said constructed entry to said directory information tree at said
destination location.

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18. A computer readable medium as described in Claim 17 wherein
20 said template further comprises a second set of attributes, said second set
comprising default values for inclusion in said constructed entry.

19. A computer readable medium as described in Claim 17 wherein
said template further comprises a third set of attributes, said third set comprising
attributes which are required to have assigned values.

5 20. A computer readable medium as described in Claim 17 wherein
said template further comprises information specifying a verification program for
verifying one or more attributes of said first set of attributes.

10 21. A computer readable medium as described in Claim 17 wherein
said template further comprises:

- i) a second set of attributes, said second set comprising default
values for inclusion in said constructed entry;
- ii) a third set of attributes, said third set comprising attributes that
are required to have assigned values; and
- iii) information specifying a program for verifying one or more
attributes of said first set of attributes.

15 22. A computer readable medium as described in Claim 21 wherein
said template is an XML file.

20 23. A computer readable medium as described in Claim 17 further
comprising the step of detecting the condition of said constructed entry being
unacceptable for addition to said directory information tree.

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24. A computer readable medium as described in Claim 17 wherein
said template is an XML file.

5 25. A computer readable medium as described in Claim 17 wherein
said directory information tree is an LDAP directory.

26. A computer readable medium having computer program
instructions stored therein for implementing a program module that directs the
addition of an entry to a directory information tree, to function in a specified
manner, the program module comprising instructions for:

- a) passing a template name to an application program interface, said
named template comprising structural information of said directory information
tree; and
- b) passing information included for said entry to said application program
interface, said passed information not including location for said entry
within said directory information tree.

27. A computer readable medium as described in Claim 26 wherein
20 said template is an XML file.

28. A computer readable medium as described in Claim 26 wherein
said directory information tree is an LDAP directory.

29. In a computing device, a method of adding an entry to a directory information tree comprising the steps of:

A) passing a template name to an application program interface, said named

5 template comprising structural information of said directory information tree;

B) receiving said template name;

C) reading a template according to said received template name,

said template comprising:

i) structural information of said directory information tree;

10 ii) a second set of attributes, said second set comprising default

attribute values;

15 iii) a third set of attributes, said third set comprising attributes that
are required to have assigned values; and

iv) information specifying a verification program;

D) passing a first set of attributes to said application program interface, said

20 passed first set of attributes not including a location for said entry within said
directory information tree;

E) receiving said first set of attributes;

F) verifying of one or more attributes of said first set of attributes using said

25 verification program;

G) constructing said entry comprising:

i) said received first set of attributes;

ii) said second set of attributes; and

- iii) a destination location within said directory information, said destination location generated using said structural information;
- H) detecting the condition of said constructed entry being unacceptable for addition to said directory information tree; at least one said condition being the

5 absence of a value for any attribute in said third set of attributes;

- I) if said constructed entry is unacceptable, generating an error condition; and
- J) adding said constructed entry to said directory information tree at said destination location.

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